

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/17/2021 Version: 1.0

SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Arctic Eagle 407C
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
Use of the substance/mixture	: Refrigerant
1.3. Details of the supplier of the safety d	ata sheet
FluoroFusion Specialty Chemicals, Inc.	
PO Box 1238	
Clayton, NC 27528-1238	
Phone: 1-919-800-0277	
Fax: 1-984-232-7978	
www.FluoroFusion.com	
Email: info@FluoroFusion.com	
1.4. Emergency telephone number	
Emergency number	: Contact Chemtrec at 800.424.9300 (24 hours)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mi	xture
GHS-US classification	
Gases under pressure H280	Contains gas under pressure; may explode if heated
Liquefied gas	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS04
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H280 - Contains gas under pressure; may explode if heated
Precautionary statements (GHS-US)	: P410+P403 - Protect from sunlight. Store in a well-ventilated place
2.3. Other hazards	
1 2	se dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may n cause asphyxiation in confined spaces. At higher temperatures, (>250°C), decomposition products
	alides such as phosgene. Rapid evaporation of the liquid may cause frostbite.
2.4. Unknown acute toxicity (GHS-US)	
None of the ingredients are of unknown toxicity.	
SECTION 2: Composition/information	

SECTION 3: Composition/information on ingredients

3.1. Substance

ARCTIC EAGLE

Not applicable - this product is a mixture.

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
1,1,1,2-Tetrafluoroethane	(CAS No) 811-97-2	52	Liquefied gas, H280
Ethane, pentafluoro-	(CAS No) 354-33-6	25	Liquefied gas, H280
Difluoromethane	(CAS No) 75-10-5	23	Liquefied gas, H280

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
	Notes to physician: Because of the possible disturbances of cardiac rhythm, catecholamine drugs such as epinephrine should be used with special caution and only insituations of emergency life support. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions.
4.2. Most important symptoms and ef	ffects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medi	ical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	s
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. Use agent that is most appropriate for type of surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
	nnerature relief devices but may still runture under fire conditions. Decomposition may occur. This
substance is not flammable in air at temperati concentrations of air at elevated pressure and	nperature relief devices but may still rupture under fire conditions. Decomposition may occur. This ures up to 100°C (212°F) at atmospheric pressure. However, mixtures of this substance with high d/or temperature can become combustible in the presence of an ignition source.
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7.2. Conditions for safe storag	e, including any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage area	Store in a well-ventilated place. Protect cylinder and its fittings from physical damage. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection	
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8.1. **Control parameters**

Ethane, pentafluoro- (354-33	-6)	
WEEL (AIHA)	Workplace Environmental Exposure Level (WEEL) Guide TWA (ppm)	1000 ppm
1,1,1,2-Tetrafluoroethane (81	1-97-2)	
WEEL (AIHA)	Workplace Environmental Exposure Level (WEEL) Guide TWA (ppm)	1000 ppm
Difluoromethane (75-10-5)		
WEEL (AIHA)	Workplace Environmental Exposure Level (WEEL) Guide TWA (ppm)	1000 ppm
8.2. Exposure controls		
Personal protective equipment	: Avoid all unnecessary exposure.	
Hand protection	: Wear protective gloves.	
Eye protection	: Chemical goggles or safety glasses.	
Respiratory protection	: Not required under normal conditions approved respirator.	s. If concentrations exceed exposure limits, use NIOSH
Other information	: Do not eat, drink or smoke during use	е.
Engineering Controls		Ily in confined areas. Local exhaust should be used when nical ventilation should be used in low or enclosed places.

SECTION 9: Physical and chemica	l properties	
9.1. Information on basic physical and	l chemical properties	
Physical state	: Gas	
Appearance	: Colorless, liquefied gas.	
Color	: Clear, Colorless	
Odor	: Slight ethereal	
Odor threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: -43.9 °C	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure at 25 °C	: 147.9 psia	
Relative vapor density at 25 °C	: No data available	
Relative density	: 1.14	
Solubility	: No data available	
Log Pow	: No data available	
Log Kow	: No data available	
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Viscosity, k	kinematic	: No data available
Viscosity, c	dynamic	: No data available
Explosive p	properties	: No data available
Oxidizing p	properties	: No data available
Explosive I	imits	: No data available
9.2. 0	Other information	
Gas group		: Liquefied gas
SECTIO	N 10: Stability and reactivity	
SECTIO	N TO. Stability and reactivity	
10.1. F	Reactivity	
Decompos	es on heating	
10.2. 0	Chemical stability	
Stable at n	ormal temperatures and storage condi	itions
10.3. F	Possibility of hazardous reactions	
Not establi	shed.	
10.4. 0	Conditions to avoid	

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Halogens, halogen acids and possibly carbonyl halides

SECTION	ON 11: Toxicological informati	on		
11.1.	Information on toxicological effects			
Acute to	kicity	: Not classified		

Ethane, pentafluoro- (354-33-6)	
LC50 inhalation rat (mg/l)	2910 g/m ³ (Exposure time: 4 h)
1,1,1,2-Tetrafluoroethane (811-97-2)	
LC50 inhalation rat (mg/l)	1500 g/m³ (Exposure time: 4 h)
Difluoromethane (75-10-5)	
LC50 inhalation rat (mg/l)	1890 g/m ³ (Exposure time: 4 h)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTIO	ION 12: Ecological information	
12.1.	Toxicity	

No additional information available

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12.2. Persistence and degradability	
Dynatemp 407C	
Persistence and degradability	Not established.
Ethane, pentafluoro- (354-33-6)	
Persistence and degradability	Not established.
1,1,1,2-Tetrafluoroethane (811-97-2) Persistence and degradability	Not established.
Difluoromethane (75-10-5)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Dynatemp 407C	
Bioaccumulative potential	Not established.
Ethane, pentafluoro- (354-33-6)	
Bioaccumulative potential	Not established.
1,1,1,2-Tetrafluoroethane (811-97-2)	
Bioaccumulative potential	Not established.
Difluoromethane (75-10-5)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.
SECTION 12, Disposal consideration	
SECTION 13: Disposal consideration	5
13.1. Waste treatment methods	
	 Dispose in a safe manner in accordance with local, state and federal regulations. Cylinder can be re-used after re-conditioning. Recover, reclaim by distillation or remove to a permitted waste disposal facility. Comply with applicable federal, state/provincial and local regulations. Empty pressure vessels should be returned to the supplier.
13.1. Waste treatment methods	: Dispose in a safe manner in accordance with local, state and federal regulations. Cylinder can be re-used after re-conditioning. Recover, reclaim by distillation or remove to a permitted waste disposal facility. Comply with applicable federal, state/provincial and local regulations. Empty
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials	Dispose in a safe manner in accordance with local, state and federal regulations. Cylinder can be re-used after re-conditioning. Recover, reclaim by distillation or remove to a permitted waste disposal facility. Comply with applicable federal, state/provincial and local regulations. Empty pressure vessels should be returned to the supplier.
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13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information	Dispose in a safe manner in accordance with local, state and federal regulations. Cylinder can be re-used after re-conditioning. Recover, reclaim by distillation or remove to a permitted waste disposal facility. Comply with applicable federal, state/provincial and local regulations. Empty pressure vessels should be returned to the supplier.
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13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description UN-No.(DOT)	 Dispose in a safe manner in accordance with local, state and federal regulations. Cylinder can be re-used after re-conditioning. Recover, reclaim by distillation or remove to a permitted waste disposal facility. Comply with applicable federal, state/provincial and local regulations. Empty pressure vessels should be returned to the supplier. Avoid release to the environment. UN3340 Refrigerant gas R 407C, 2.2 3340
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description UN-No.(DOT) DOT NA no. Proper Shipping Name (DOT) Hazard Classes (DOT)	 Dispose in a safe manner in accordance with local, state and federal regulations. Cylinder can be re-used after re-conditioning. Recover, reclaim by distillation or remove to a permitted waste disposal facility. Comply with applicable federal, state/provincial and local regulations. Empty pressure vessels should be returned to the supplier. Avoid release to the environment. UN3340 Refrigerant gas R 407C, 2.2 3340 UN3340 Refrigerant gas R 407C 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description UN-No.(DOT) DOT NA no. Proper Shipping Name (DOT)	 Dispose in a safe manner in accordance with local, state and federal regulations. Cylinder can be re-used after re-conditioning. Recover, reclaim by distillation or remove to a permitted waste disposal facility. Comply with applicable federal, state/provincial and local regulations. Empty pressure vessels should be returned to the supplier. Avoid release to the environment. UN3340 Refrigerant gas R 407C, 2.2 3340 UN3340 Refrigerant gas R 407C
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 13.1. Waste treatment methods Waste disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with DOT Transport document description UN-No.(DOT) DOT NA no. Proper Shipping Name (DOT) Hazard Classes (DOT) Hazard labels (DOT) DOT Special Provisions (49 CFR 172.102) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) 	 Dispose in a safe manner in accordance with local, state and federal regulations. Cylinder can be re-used after re-conditioning. Recover, reclaim by distillation or remove to a permitted waste disposal facility. Comply with applicable federal, state/provincial and local regulations. Empty pressure vessels should be returned to the supplier. Avoid release to the environment. UN3340 Refrigerant gas R 407C, 2.2 3340 UN3340 Refrigerant gas R 407C 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115 2.2 - Non-flammable gas Image: State of the supplication of the supplication
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CFR 175.75)	: 150 kg		
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.		
ADR			
No additional information available.			
Transport by sea			
No additional information available			
Air transport			
No additional information available			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
Dynatemp 407C			
SARA Section 311/312 Hazard Classes	Gas under pressure		
Ethane, pentafluoro- (354-33-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Difluoromethane (75-10-5)			
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory		
15.2. International regulations			
CANADA			
CANADA Ethane, pentafluoro- (354-33-6)			
	es List)		

isted on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification	Class A - Compressed Gas
Difluoromethane (75-10-5)	
Difluoromethane (75-10-5)	

EU-Regulations

Ethane, pentafluoro- (354-33-6)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
1,1,1,2-Tetrafluoroethane (811-97-2)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Difluoromethane (75-10-5)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

15.2.2. National regulations

Arctic Eagle 407C

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Ethane, pentafluoro	354-33-6)	
Listed on IECSC (In Listed on the Japane Listed on the Japane Listed on NZIoC (Ne	stralian Inventory of Chemical Substances) tory of Existing Chemical Substances Produced or Imported in China) ENCS (Existing & New Chemical Substances) inventory ISHL (Industrial Safety and Health Law) Zealand Inventory of Chemicals) pines Inventory of Chemicals and Chemical Substances)	
1,1,1,2-Tetrafluoroe	ane (811-97-2)	
Listed on IECSC (In Listed on the Japane Listed on the Japane Listed on the Korear Listed on NZIOC (Ne	stralian Inventory of Chemical Substances) tory of Existing Chemical Substances Produced or Imported in China) ENCS (Existing & New Chemical Substances) inventory ISHL (Industrial Safety and Health Law) CL (Existing Chemicals List) Zealand Inventory of Chemicals) pines Inventory of Chemicals and Chemical Substances)	
Difluoromethane (7	0-5)	
Listed on IECSC (In Listed on the Japane Listed on the Japane Listed on NZIoC (Ne	stralian Inventory of Chemical Substances) tory of Existing Chemical Substances Produced or Imported in China) ENCS (Existing & New Chemical Substances) inventory ISHL (Industrial Safety and Health Law) Zealand Inventory of Chemicals) pines Inventory of Chemicals and Chemical Substances)	

15.3. US State regulations

MARNING: This product can expose you to chloroform, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to <u>www.p65warnings.ca.gov</u>.

SECTION 16: Other information

Other information

: None.

Full text of H-phrases:

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	H280	Contains gas under pressure; may explode if heated

SDS US (GHS HazCom 2012)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.